BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT MARUTHINAGARA AND SURROUNDING AREAS IN WARD NO.01 OF YELAHANKA SUB DIVISION

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Estimate Cost Rs. 10.00 Lakhs Rate	Amount
1	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1 (a) / 2.3.1 (P.5/I 2.1)KPWD S.R 2016-17								
	Road cut portion	Cum							
	Darmaraj Temple Road		1	145.00	0.90	0.30	39.15		
					Total Qty		**39.15**	184.73	**7232.03**
	Basic Rate	157.00							
	AD-HOC 11%	17.27							
	Sub-Total	174.27							
	Area Weightage @ 6%	10.46							
	Total	**184.73**							
2	KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3)KPWD S.R 2016-17								
	Darmaraj Temple Road and Mata Road	Cum							
			1	105.00	0.80	0.90	75.60		
					Total Qty		**75.60**	222.38	**16811.73**
	Basic Rate	189.00							
	AD-HOC 11%	20.79							
	Sub-Total	209.79							
	Area Weightage @ 6%	12.59							
	Total	**222.38**							
3	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1)								
		Cum							
					Qty Vide Item No.1+2		**114.75**	111.00	**12737.25**
	Average Weight of Earth 1.28 Tonne/Km								
	Basic Rate Lead Charges for 10.00 Kms (2.50X1.28X10.00)	32.00							
	Add loading and unloading Item No 17.1)	68.00							
	Sub-Total	100.00							36781.01

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Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	AD-HOC 11%	11.00							
	Total	**111.00**							
4	KSRB 4-1.3 Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.3)								
	for Road	Cum							
	Darmaraj Temple Road		1	145.00	0.90	0.15	19.58		
	Darmaraj Temple Road and Mata Road		1	105.00	0.80	0.15	12.60		
					Total Qty		**32.18**	5726.51	**184250.53**
	Basic Rate	4867.00							
	AD-HOC 11%	535.37							
	Sub-Total	5402.37							
	Area Weightage @ 6%	324.14							
	Total	**5726.51**							
5	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC cement at 300kgs. with 20mm and down size granite metal coarse aggregates at 0.69cum and fine aggregates at 0.43cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No.1500, 1700, 2200 -do- Wall and bottom thickness 15cm (P.No.265 / It.No.37.59.2)								
	for drain	Cum							
	bed		1	105.00	0.80	0.15	12.60		
	side wall		2	105.00	0.15	0.60	18.90		
					Total Qty		**31.50**	12246.05	**385750.66**
	Basic Rate	10408.00							
	AD-HOC 11%	1144.88							
	Sub-Total	11552.88							
	Area Weightage @ 6%	693.17							
	Total	**12246.05**							
6	KSRB 4.9.2 Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3-do-TMT Bars Fe 500 P.17/It.No.4.46.2 (rates effects from 01-07-2017)								
		tonne							
		50% of Qty Vide item No.5				in Qtl	15.750		
						In tonne	**1.575**	71310.20	**112313.56**
	Basic Rate	60607.00							
	AD-HOC 11%	6666.77							
	Sub-Total	67273.77							
	Area Weightage @ 6%	4036.43							
	Total	**71310.20**							

719095.76

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
7	KSRRB M600-6. Cement concrete pavement. Construction Un- reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and size graded granite metal , coarse and fine aggregate with superplastisiser @ 3lts conforming to IS9103-1999 Reaffirmed-2008, mixed in a concrete mixer of not less than 0.6cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved curing compound, finishing to lines and grades as per drawing complete as per specifications.(P.No.174 / It.No.22.6.2)								
		Cum							
	Darmaraj Temple Road		1	145.00	0.90	0.125	16.31		
						Total Qty	16.31	6901.94	112587.82
	Basic Rate	5866.00							
	AD-HOC 11%	645.26							
	Sub-Total	6511.26							
	Area Weightage @ 6%	390.68							
	Total	**6901.94**							
8	Providing and fixing **RCC precast Slabs of 0.10 m thick of CC 1:2:4 with 20 mm** and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
	Covering Slab	Sqm							
	Darmaraj Temple Road and Mata Road		1	105.00	0.75		78.75		
						Total Qty	78.75	2100.00	165375.00
	Data Rate	2100.00							
9	Miscellaneous and unforeseen charges	LS							2941.00
							Grand Total Amount		1000000.00
	(Rupees Ten Lakhs Only)								

CERTIFICATE

1) The site has been inspected and the work is found to be necessary.
2) The rates adopted are as per PW,P IWTD SR of 2016-17 and data rate of Bangalore Circle.
3) The provisions were made in this estimate are necessary and adequate.
4) The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.
5) This work is not repeated in any other programs or Grants

Assistant Engineer
Ward No.01

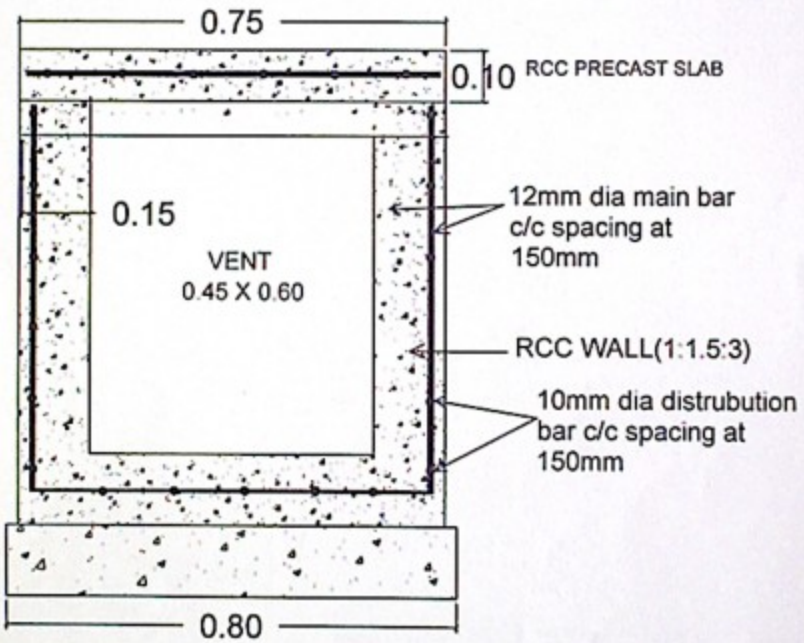
Executive Engineer
Yelahanka Division
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

997058.58

999999.58

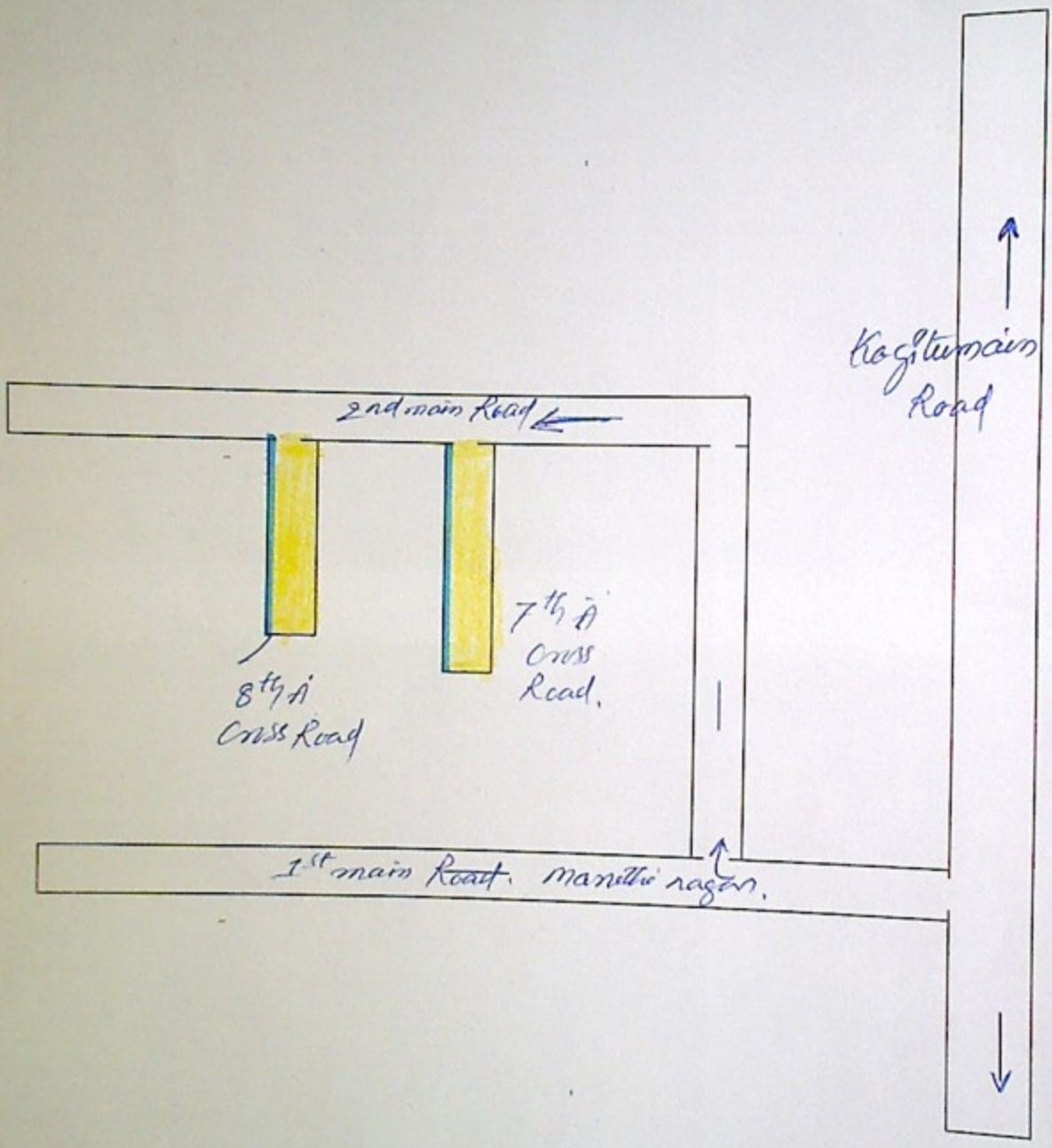
NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT MARUTHINAGARA AND SURROUNDING AREAS IN WARD NO.01 OF YELAHANKA SUB DIVISION



TYPICAL CROSS SECTION OF RCC DRAIN

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Name of work : imprvoments to roads and drains at Maruthinagara and surrounding areas in ward no -01 of yelahanka Sub division.



INDEX: N.H.

R.C.C drain

R.C.C Road

A.E.

Asst Executive Engineer
Yelahanka Sub Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore